

Fig.3

COMBUSTION PARAMETER MODE	(dP/dθ)max	(dP/d0)NO.2max	(dP/d 0) NO. 3max
ONLY MAIN FUEL INJECTION	MAIN FUEL INJECTION INJECTION TIMING	1	-
PILOT INJECTION + NAIN FUEL INJECTION	PILOT INJECTION INJECTION TIMING	MAIN FUEL INJECTION INJECTION TIMING	l
MAIN FUEL INJECTION A AFTER INJECTION	MAIN FUEL INJECTION INJECTION TIMING	AFTER INJECTION INJECTION TIMING	i
PILOT INJECTION * MAIN FUEL INJECTION * AFTER INJECTION	PILOT INJECTION INJECTION TIMING	NAIN FUEL INJECTION INJECTION TIMING	AFTER INJECTION INJECTION TIMING

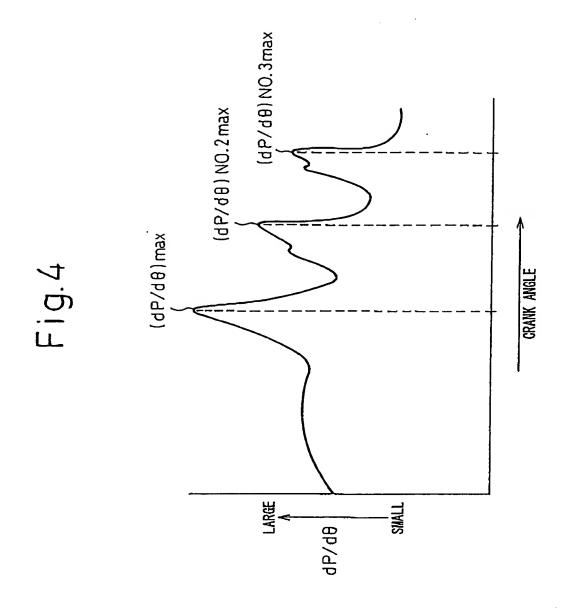


Fig. 5

(42P/4 0 2) ND. 3max		ļ		AFTER INJECTION INJECTION TIMING
(d2P/d 0 2) NO. 2max	_	MAIN FUEL INJECTION INJECTION	AFTER INJECTION INJECTION TIMING	MAIN FUEL INJECTION INJECTION TIMING
(d2P/d82)max	MAIN FUEL INJECTION INJECTION TINING	PILOT INJECTION INJECTION TIMING	NAIN FUEL INJECTION INJECTION TIMING	PILOT INJECTION INJECTION TIMING
COMBUSTION PARAMETER MODE	ONLY MAIN FUEL Injection	PILOT INJECTION + MAIN FUEL INJECTION	MAIN FUEL INJECTION + AFTER INJECTION	PILOT INJECTION T MAIN FUEL INJECTION AFTER INJECTION

F i q. 6

	1	T	T	
(dQ/dθ)NO.3max	_	1	1	AFTER INJECTION INJECTION TIMING
(dQ/d 0) NO. 2max		MAIN FUEL INJECTION INJECTION TIMING	AFTER INJECTION INJECTION TIMING	MAIN FUEL INJECTION INJECTION TIMING
(dQ/d \theta) max	MAIN FUEL INJECTION INJECTION	PILOT INJECTION INJECTION	MAIN FUEL INJECTION INJECTION TIMING	PILOT INJECTION INJECTION TIMING
COMBUSTION PARAMETER MODE	ONLY MAIN FUEL INJECTION	PILOT INJECTION + MAIN FUEL INJECTION	MAIN FUEL INJECTION + AFTER INJECTION	PILOT INJECTION + MAIN FUEL INJECTION + AFTER INJECTION

Fig.7

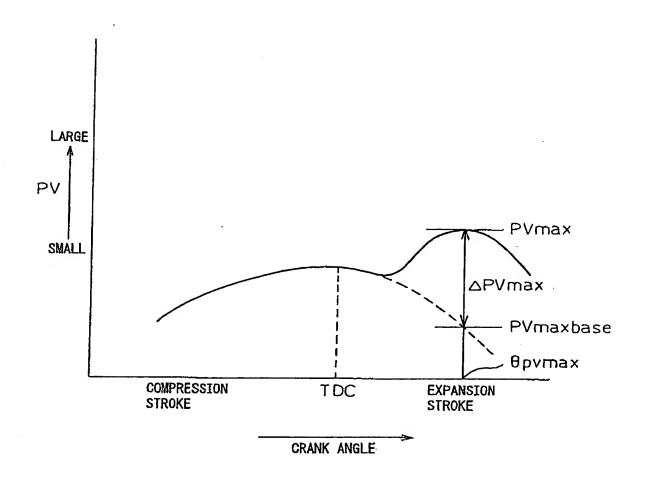


Fig.8

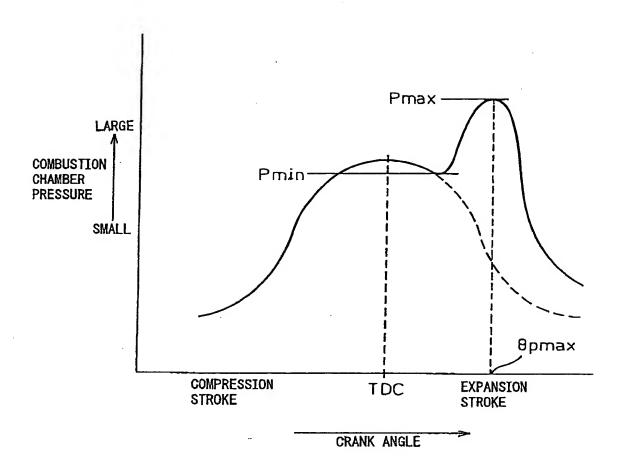


Fig.9

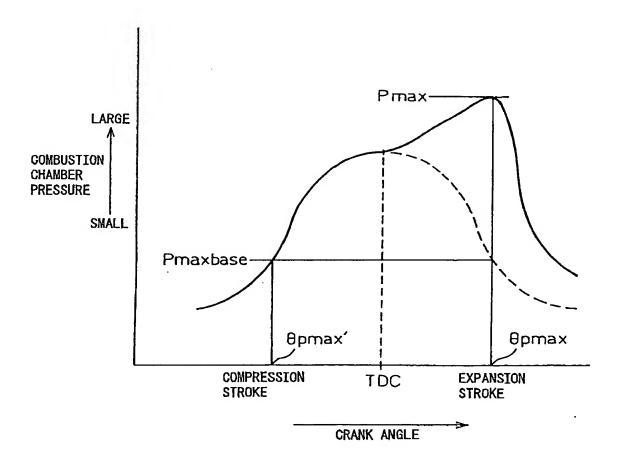


Fig.10

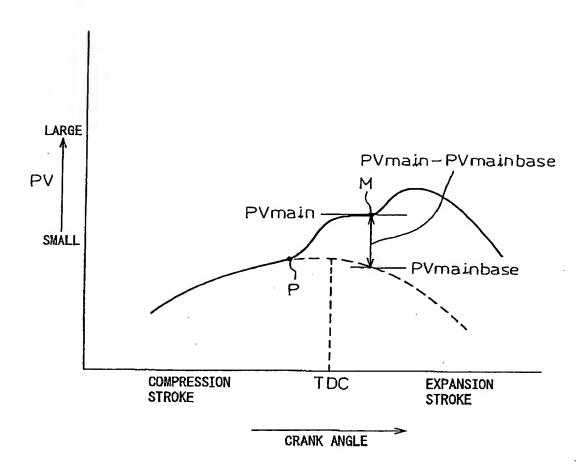


Fig.11

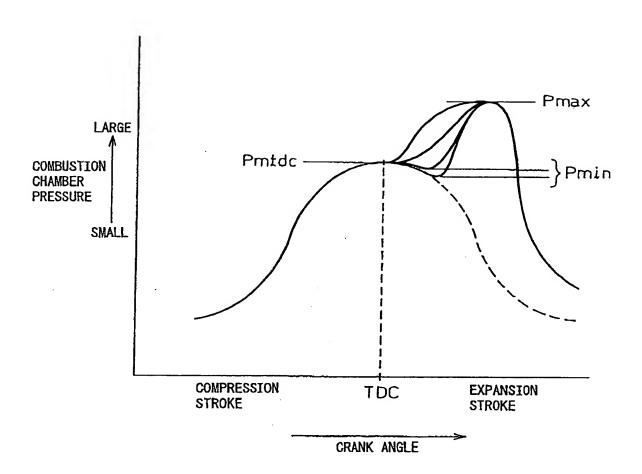
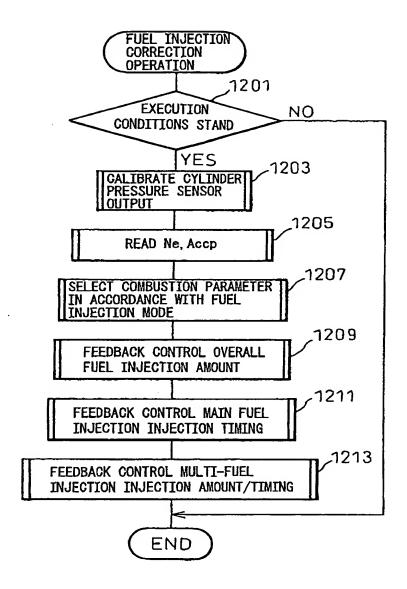


Fig.12



PRESSURE PR1
BDC
CRANK ANGLE

Fig.14

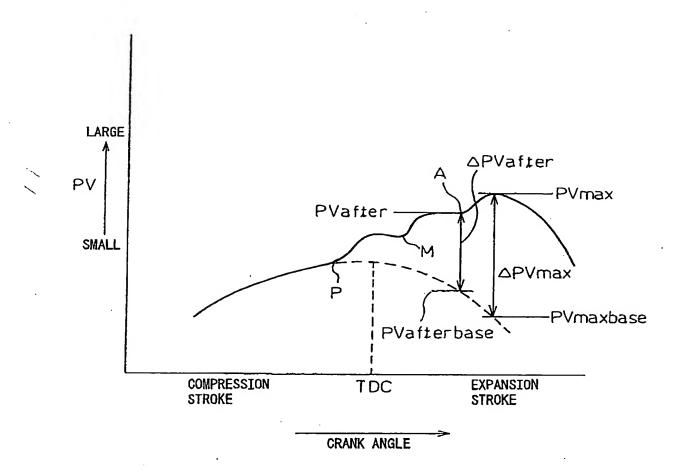


Fig.15

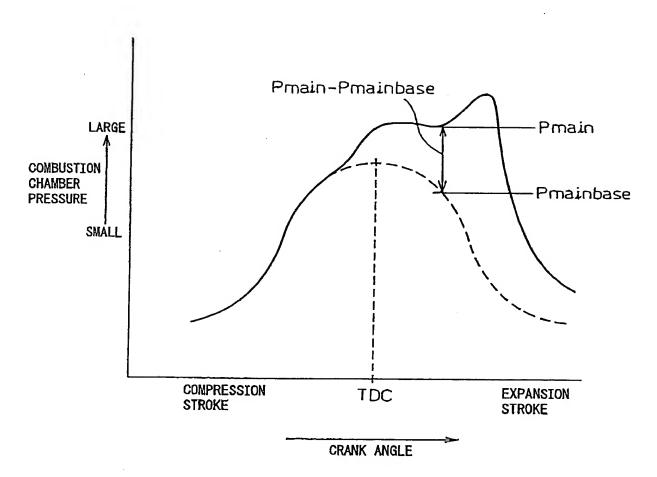


Fig.16

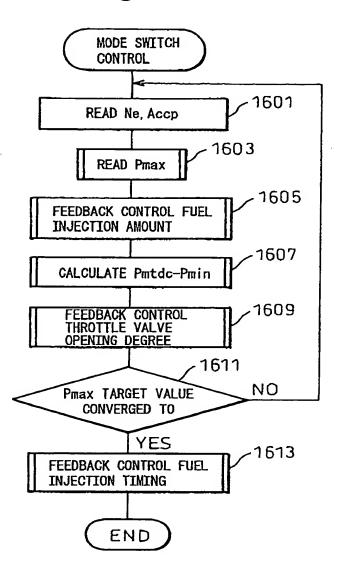


Fig.17

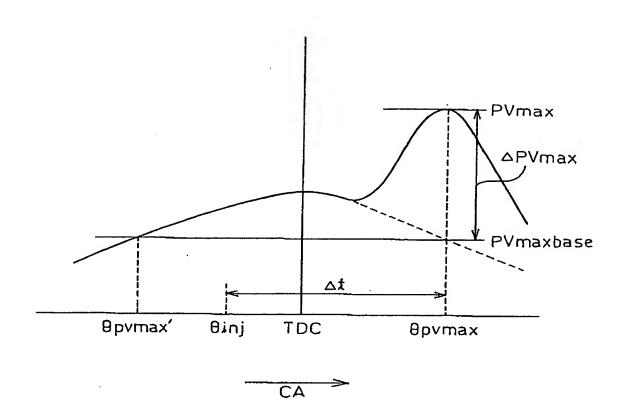


Fig.18

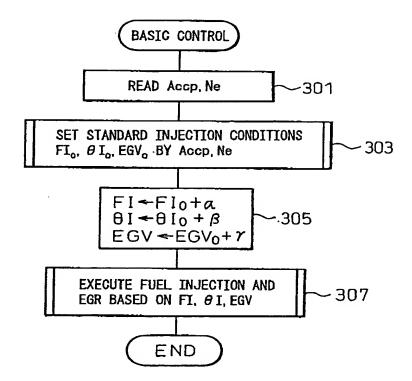


Fig. 19

1.5

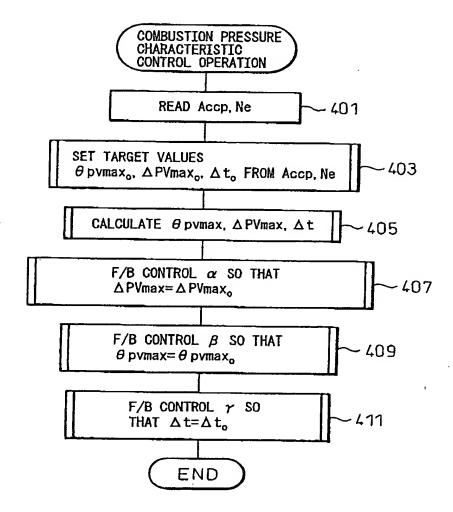


Fig. 20

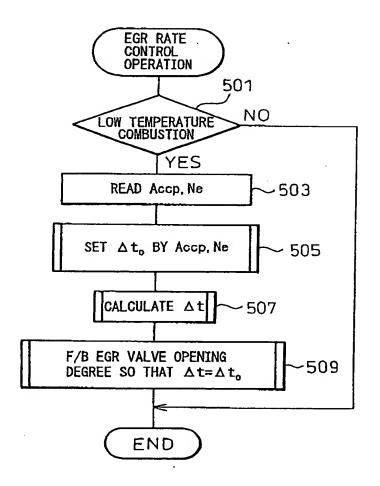


Fig.21

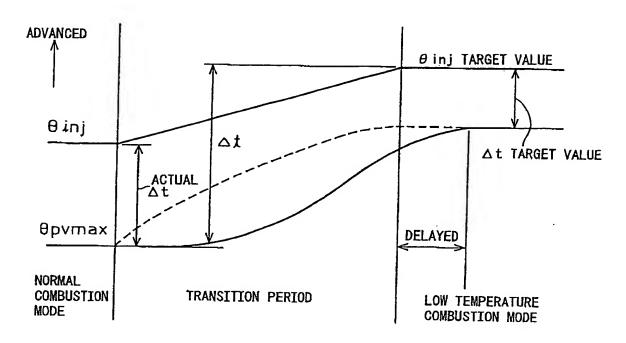


Fig.22

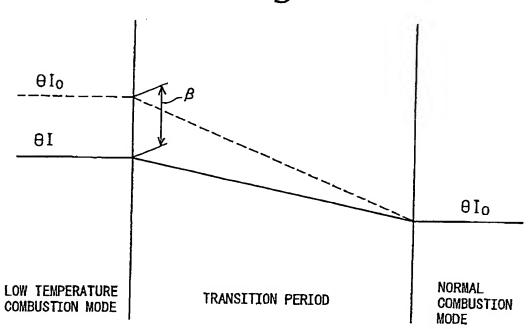
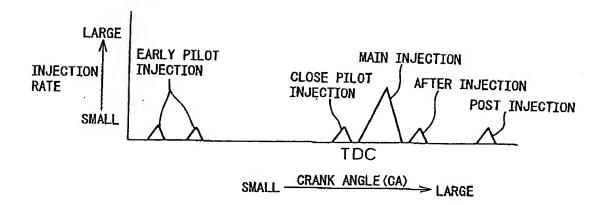
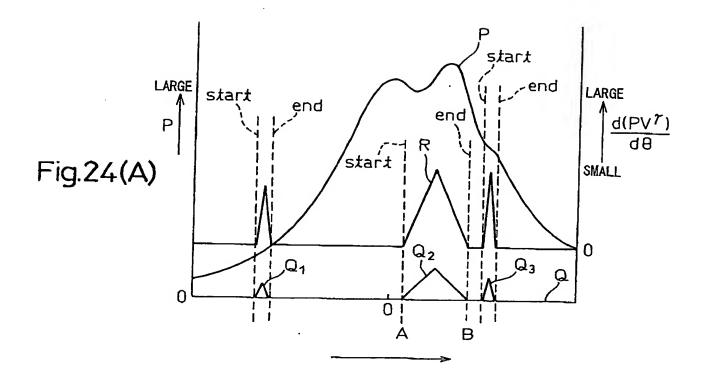
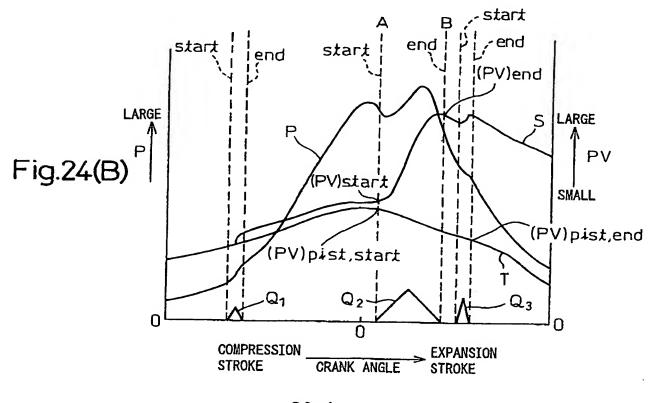


Fig.23







23/26

Fig.25

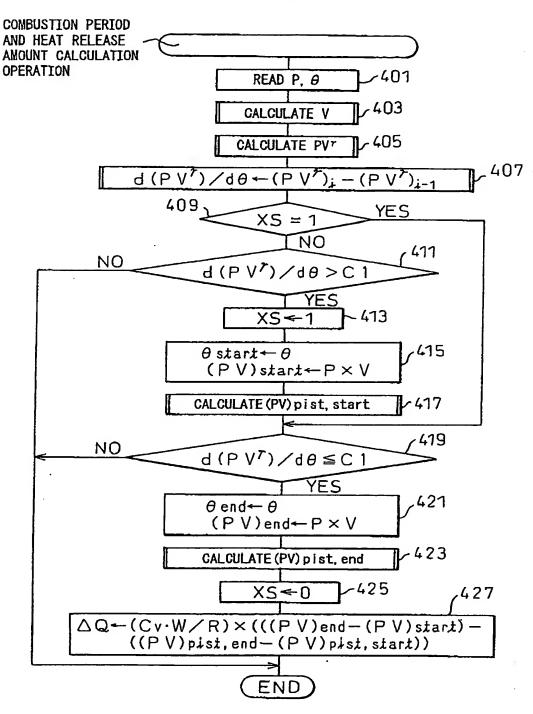
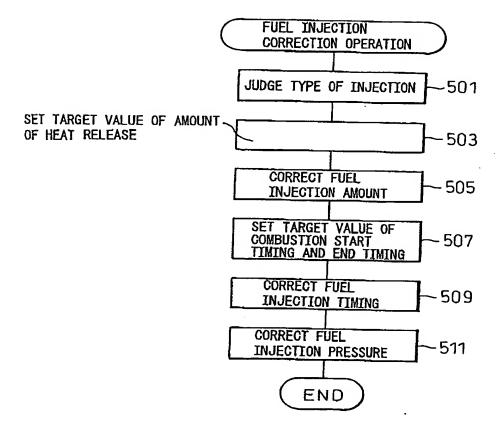


Fig.26



LIST OF REFERENCES

- 1... diesel engine
- 3... common rail
- 10a to 10d... in-cylinder fuel injector
- 20... electronic control unit (ECU)
- 21... accelerator opening degree sensor
- 25... crank angle sensor
- 29a to 29d... cylinder pressure sensors
- 35... EGR valve